

KASHCHENKO L.H.
EXCERPTA MEDICA Sec.14 Vol.11/7 Radiology Jul 57.

1194. KASHCHENKO L.A. Dept. of Exp. Morphol., Centr. Roentgenol. and Radiol. Inst., Leningrad. * The influence of radioactive iodine on the pituitary and ovaries of mammals (Russian text) MED. RADIOL. 1956, 2 (70-75) Illus. 4

Following the administration of radioactive iodine (I^{131}), the changes occurring in endocrine glands, functionally related to the thyroid, were investigated. An aqueous solution of sodium iodide with the activity of I^{131} from 1 to 250 μ c. was administered to more than 1,000 white mice. The thyroid, pars anterior of the pituitary and ovaries were studied histologically. The uptake and secretion of I^{131} by the thyroid were recorded. Structural and functional changes were observed in the pituitary and ovaries as well as in the thyroid, and their degree was directly dependent on the activity of I^{131} introduced. It was proved that changes observed in the pars anterior and in the ovaries were to some extent a result of changes produced in the thyroid itself by I^{131} . The changes in the pars anterior were those usually found in hypothyroidism, and their degree was proportional to the degree of hypothyroidism. The changes in the ovaries were those usually found in hyperfunction of the pituitary. It is stressed that the side-effects of treatment with I^{131} may be serious and cannot be disregarded. References 3. Nevskaya - Moscow

USSR/Human and Animal Physiology (Normal and Pathological) T
The Effect of Physical Factors. Ionizing Irradiation

Abs Jour : Ref Zhur Biol., N. 6, 1959, 27209

Author : Kashchenko, L.A., Pushnitsina, A.D.

Inst :

Title : Physiological Shifts in the Organism Which Arise in
Irradiation with X-Rays of Sex Glands.

Orig Pub : Vestn. rentfenol. i radiol., 1956, ³¹No 4, 3-11

Abstract : Sensitivity of ovaries (O) to irradiation 2-10 days
after introduction to animals of 30 m. u. of prolactin (I)
each was investigated in mice. Head, chest and extremi-
ties were screened at the time of irradiation. The dose
was 200 r. 2 days after introduction of I, O were in the
state of stimulation of growth of follicles; after 10
days, in the state of active activity of corpora lutea.
O of mice which were irradiated 10 days after introduc-
tion of I lost less in weight, microscopic injuries were

Card 1/2

*Dept. Exptl. & Pathological Morphology,
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USSR/Human and Animal Physiology (Normal and Pathological) T
The Effect of Physical Factors. Ionizing Irradiation

APPROVED FOR RELEASE: 06/13/2000 1959, 27209 CIA-RDP86-00513R000721010013-6"

less pronounced in them, than in mice irradiated 2 days
after I introduction. Reaction of irradiated testes
(T) to introduction of the substance of the anterior
lobe of hypophysis was studied. After local irradiation
of T with 5000-20 000 r a gonadotrophic reaction, consis-
ting of energetic excretion of spermatocytes from sperm duc-
tules, decreased considerably (by 35-85%) and was restored
only by the 45th day after irradiation. At the moment
when radiation injury of T was sharply expressed, the an-
terior lobe of the hypophysis (ALH) of frogs recalled his-
tologically the ALH of a castrate. In the period of com-
plete restoration of injured T, a picture characteristic
of ALH of normal frog was restored in ALH. As a result
of local irradiation of T, secretory activity of ALH in-
creases, which assures the possibility of repair of in-
jured T. -- E.R. Ragramyan

Card 2/2

STRELIN, G.S.; KASHCHENKO, L.A.; SHMIDT, N.K.; GALKOVSKAYA, K.F.;
PUSHNITSINA, A.D.; ZIL'BERG, Yu.G.

Effect of the dose of radiation from radioactive cobalt (Co^{60})
on the reaction of the organism in total body irradiations.
Vop.radiobiol. 2:30-43 '57. (MIRA 12:6)

1. Sotrudniki Tsentral'nogo nauchno-issledovatel'skogo rentgeno-
radiologicheskogo instituta Ministerstva zdavookhraneniya SSSR.
(COBALT--ISOTOPES) (RADIATION--DOSAGE)

KASHCHENKO, L.A.

Reaction of the thyroid gland, ovaries and the anterior hypophyseal lobe on single and chronic total body irradiations with radioactive cobalt (Co^{60}) from an external source. Vop.radiobiol. 2:254-275 '57. (MIRA 12:6)

1. Sotrudnik Tsentral'nogo nauchno-issledovatel'skogo rentgenoradiologicheskogo instituta Ministerstva zdavookhraneniya SSSR.
(ENDOCRINE GLANDS) (COBALT--ISOTOPES)

KASHCHENKO, L.A.

Hormone therapy of hypophyseal lesions caused by the introduction of radioactive iodine (I^{131}). Vop.radiobiol. 2:413-420 '57. (MIRA 12:6)

1. Sotrudnik Tsentral'nogo nauchno-issledovatel'skogo rentgenoradiologicheskogo instituta Ministerstva zdravookhraneniya SSSR. (PITUITARY BODY) (IODINE--ISOTOPES) (THYROID GLAND)

KASHCHENKO, I. A.

Preventing the absorption of radioactive iodine by the thyroid gland through the administration of stable iodine. Vop. radio-biol. 2:276-280 '57. (MIRA 12:6)

1. Sotrudnik Tsentral'nogo nauchno-issledovatel'skogo rentgeno-radiologicheskogo instituta Ministerstva zdravookhraneniya SSSR.
(THYROID GLAND) (IODINE--PHYSIOLOGICAL EFFECT)

KASHCHENKO, L. A.

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PHASE I BOOK EXPLOITATION

SOV/5435

Kiselev, P. N., Professor, G. A. Gusterin, and A. I. Strashinin, Eds.

Voprosy radiobiologii. t. III: Sbornik trudov, posvyashchenny 60-letiyu so dnya rozhdeniya Professora M. N. Pobedinskogo (Problems in Radiation Biology. v. 3: A Collection of Works Dedicated to the Sixtieth Birthday of Professor Mikhail Nikolayevich Pobedinskiy [Doctor of Medicine]) Leningrad. Tsentr. n-issl. in-t med. radiologii M-va zdravookhraneniya SSSR, 1960. 422 p. 1,500 copies printed.

Tech. Ed.: P. S. Peleshuk.

PURPOSE: This collection of articles is intended for radiobiologists.

COVERAGE: The book contains 49 articles dealing with pathogenesis, prophylaxis, and therapy of radiation diseases. Individual articles describe investigations of the biological effects of radiation carried out by workers of the Central Scientific Research Institute for Medical Radiology of the Ministry of Public Health, USSR. [Tsentral'nyy nauchno-issledovatel'skiy institut meditsinskoy radiologii Ministerstva zdravookhraneniya SSSR] during 1958-59. The following

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≡ 69

Problems in Radiation Biology (Cont.)

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topics are covered: various aspects of primary effects of radiation; the course of some metabolic processes in animals subjected to ionizing radiation; reactions in irradiated organisms; morphologic changes in radiation disease; and reparation and regeneration of tissues injured by irradiation. Some articles give attention to the effectiveness of experimental medical treatments. No personalities are mentioned. References accompany almost all of the articles.

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Lebedinskiy, A. V. [Member, Academy of Medical Sciences USSR], N. I. Arlashchenko, and V. M. Mastryukova. On the Mechanism of Trophic Disturbances Due to Ionizing Radiation	11
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Problems in Radiation Biology (Cont.)

807/5435

Kashchenko, L. A., N. K. Schmidt, and P. I. Ostrovskaya-Zakharevich. Reaction of the Spleen, Mesenteric Intestinal Membrane, and Testicles of Frogs to the Effect of Ionizing Radiation in Whole-Body and Local Irradiation

298

Kashchenko, L. A., P. I. Ostrovskaya-Zakharevich, and N. K. Schmidt. Reparation of Radiation Injury in Frog Testicles

311

Kalashnikov, B. P., and Yu. S. Kaminskaya. Experimental Data on the Injurious Effect of X-Rays on the Retina Due to Local and Whole-Body Irradiation

318

Kiselev, P. M., and V. A. Semina. Effect of Some Hormones of the Adrenal and Pituitary Glands on the Course of Autoinfectious Processes in Radiation Sickness

327

Sivertseva, V. N. Problem of the Effect of Chronic Continuous Influence of Ionizing Radiation on the Course of Infectious Processes

335

Smorodintsev, A. A. Morphologic Changes in the Respiratory Canal in Experimental Influenza of Immune White Mice Irradiated With X-Rays

344

Card 8/10

KASHCHENKO, L.A.

Changes in the endocrine system under the influence of radiations.
Med. rad. 6 no.2:65-71 '61. (MIRA 14:3)
(RADIATION—PHYSIOLOGICAL EFFECT) (ENDOCRINE GLANDS)

KASHCHENKO, L.A.; SHMIDT, N.K.; OSTROVSKAYA-ZAKHAREVICH, P.I.

The 39th meeting of an All-City Seminar on Radiobiology and
the Physics of Penetrating Radiations at the Central Scientific
Research Institute of Medical Radiology of the Ministry of Health
of the U.S.S.R., held on March 20, 1959. Med. rad. 5 no.1:85
Ja '60. (MIRA 15:3)

(RADIATION--PHYSIOLOGICAL EFFECT)

KASHCHENKO, L.A.

Ovulation mechanism in frogs. Dokl.AN SSSR 145 no.3:698-700
Jl '62. (MIRA 15:7)

1. Tsentral'nyy nauchno-issledovatel'skiy institut meditsinskoy
radiologii. Predstavleno akademikom N.N.Anichkovym.
(EMBRYOLOGY---BATRACHIA) (FROGS)

24, 1220

41741

S/020/62/146/006/016/016
B144/B186

AUTHOR: Kashchenko, L. A.

TITLE: Effect of ionizing irradiation on the gonadotrophic reaction
of ovaries in mice

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 146, no. 6, 1962, 1430-1433

TEXT: The effect of x-ray castration irradiation (80 - 160 r) on the gonadotrophic reaction of the ovaries was studied in 6-week old mice. The test animals were divided into four groups: (1) the first control group was given no injections and was not irradiated; (2) the second control group was subjected to irradiation only; (3) the third control group, to which only prolان injections were administered; (4) the experimental group which was irradiated and received then on the 14th and 15th day a subcutaneous injection of an aqueous solution of crystalline prolان of 30 mouse units. Examinations were carried out within the following intervals: each time a group of 5 mice was killed and opened: the first immediately prior to the injections, the second after 96 hrs, and the third after 120 hrs. Irradiation reduced the weight of the ovaries considerably. When prolان

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27.12.20

42547

S/020/62/147/001/021/022
B144/B101

AUTHOR: Kashchenko, L. A.

TITLE: Mechanism of radiation injury in the ovaries of the mouse

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 147, no. 1, 1962, 217-220

TEXT: The connection suggested between the extent of radiation injuries and the functional state of the epithelium cells of the primary follicles was studied in mice which were whole-body irradiated (Co^{60}) with 1000 and 2000 r. The reaction of the ovaries was histologically examined in groups of 3 mice each which were killed 1, 2, 3, 5, 7, 10, 12, 14, 20, 24, 36, 40, 48, and 72 hrs, and 5-7 and 10 days after being irradiated. Dividing cells of the follicle epithelium were most radiosensitive, particularly those in large multilayer follicles. The one- and two-layer follicles were relatively radioresistant. From the fact that in multilayer follicles the epithelium cells are more rapidly destroyed than the oocytes it may be concluded that irradiation affects primarily the follicle epithelium, thus interrupting the nutrition of the oocytes. Once the oocytes had ceased to grow, they were scarcely injured by ionizing radiation, and remained capable

Card 1/2

Mechanism of radiation ...

S/020/62/147/001/021/022
B144/B101

of dividing. The predominant role of the cells of the follicle epithelium is proved also by the fact that the reactivity of the ovaries to gonadotrophic hormone was lost when these cells had been damaged by irradiation. There is 1 figure. *J*

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut meditsinskoy radiologii (Central Scientific Research Institute of Medical Radiology)

PRESENTED: April 19, 1962, by N. N. Anichkov, Academician

SUBMITTED: April 17, 1962

Card 2/2

43484

S/205/62/002/006/011/021
E027/E410

27.1220

AUTHOR: Kashchenko, L.A.

TITLE: Radiation damage to the mechanism of ovulation in
the frog

PERIODICAL: Radiobiologiya, v.2, no.6, 1962, 868-872

TEXT: Mature female frogs were exposed to local X-irradiation of the abdominal region with a dose of 18 Kr, and 20 days later a suspension of the anterior lobe of the frog pituitary was injected into the dorsal lymph sac, the dose amounting to 3 pituitaries in one-half of the animals and 6 in the remainder. Histological examinations were carried out on ovaries removed from animals killed 3 to 55 hours after irradiation [sic]; including unirradiated controls, 90 animals were used in all. In the controls the typical gonadotropic response (maturation and ovulation) occurred. In the irradiated animals ovulation was weak and delayed and 30-55 hours after injection had occurred in only 8 of 13 animals. Signs of functional stimulation of the ovaries were absent in most animals, and where activation had occurred abnormalities of the cells could be observed in the form of pyknosis, karyorrhexis and detachment of the follicular

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Radiation damage ...

S/205/62/002/006/011/021
E027/E410

membrane; the appearances are illustrated in photomicrographs.
There is 1 plate.

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut
meditsinskoy radiologii MZ SSSR, Leningrad
(Central Scientific Research Institute of Medical
Radiology MZ USSR, Leningrad)

SUBMITTED: April 23, 1962

Card 2/2

KASHCHENKO, L.A.

Mechanism underlying radiation damage of the ovaries in mice. Dokl. AN SSSR 147 no.1:217-220 N '62. (MIRA 15:11)

1. TSentral'nyy nauchno-issledovatel'skiy institut meditsinskoy radiologii. Predstavleno akademikom N.N. Anichkovym.

(Radiation--Physiological effect)
(Ovaries)

KASHCHENKO, L.A.

Effect of ionizing radiation on the gonadotropic reaction
of ovaries in mice. Dokl. AN SSSR 146 no.6:1430-1433 0 '62.

(MIRA 15:10)

1. Tsentral'nyy nauchno-issledovatel'skiy institut meditsinskoy
radiologii. Predstavleno akademikom N.N. Anichkovym.

(RADIATION—PHYSIOLOGICAL EFFECT) (OVARIES)

(GONADOTROPIN)

KASHCHENKO, L.A.

Radiation reaction of the anterior lobe of the hypophysis in
a frog. Radiobiologiya 3 no.1:76-80 '63. (MIRA 16:2)

1. Tsentral'nyy nauchno-issledovatel'skiy institut meditsinskoy
radiologii, Leningrad.
(PITUITARY BODY) (X RAYS—PHYSIOLOGICAL EFFECT)

KASHCHENKO, L.I.

~~Kbirghiz fescues. Trudy Biol.inst.KirFAN SSSR no.3:85-95 '50.~~
(KIRGHIZISTAN--FESCUE) (MLRA 8:5)

KASHCHENKO, L.I.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1954)

<u>Name</u>	<u>Title of Work</u>	<u>Nominated by</u>
Nikitina, Ye.V.	"Flora of the Kirgiz SSR"	Kirgiz Affiliate of the
Rozhenits, R.Yu.		Academy of Sciences USSR
Kashchenko, L.I.		
Protopopov, G.D.		
Popova, L.I.		
Shishkin, B.K.		
Vvedenskiy, A.I.		

SO: W-30604, 7 July 1954

KASHCHENKO, L. I.

Agronomy

Dissertation: "Fescue Grasses and Their Importance as Fodder." Cand Biol
Sci, Kirgiz Agricultural Inst imeni K. I. Skryabin, 23 Mar 54.
(Sovetskaya Kirgiziya, Frunze, 9 Mar 54)

SO: SUM 213 , 20 Sept 1954

NIKITINA, Ye.V.; PROTOPOPOV, G.F.; ROZHEVITS, R.Yu. [deceased]; POPOVA, K.I.,
KASHCHENKO, L.I.; SMIRNOV, L.A.; TKACHENKO, V.I.; YAKUBOVA, P.A.;
GOLOVKOVA, A.G.; AYDAROVA, P.A.; SHPOTA, Ye.I.; SHEVCHENKO, D.A.;
 SHISHKIN, Boris Konstantinovich, professor, doktor biologicheskikh
 nauk, nauchnyy redaktor; VVEDENSKIY, A.I., nauchnyy redaktor;
 YEVRUSHENKO, G.A., professor, otvetstvennyy redaktor; KOVALEV, V.N.,
 otvetstvennyy redaktor; SEREBRYAKOV, V.I., tekhnicheskii redaktor

[The flora of Kirghizistan; classification of the plants of
 Kirghizistan] Flora Kirgizskoi SSR; opredelitel' rastenii Kirgizskoi
 SSR. Sost. E.V.Nikitina i dr. Frunze, Izd-vo Akademii nauk Kirgizskoi
 SSR. Vol.1. [Pteridophyta, Gymnosperms and Monocotyledons of the
 Angiosperms] Paprotnikoobraznye, golosemennye i odnodol'nye iz
 pokrytosemennyykh. 1952. 103 p. Vol. 2. [Grasses and sedges] Zlaki
 i osokovye. 1950. 315 p. Vol.3. [Aroidae - Orchidaceae] Aroidnye -
 Orkhidnye. 1951. 148 p. Vol.4. [Salicaceae - Polygonaceae] Ivovye -
 Grechishnye. 1953. 153 p. Vol. 5. [Families: Chenopodiaceae,
 Amaranthaceae, Portulacaceae, Caryophyllaceae] Semeistva: Marevye,
 Amarantovye, Portulakovye, Gvozdichnye. 1955. 185 p. Vol. 6.
 [Families: Geratophyllaceae, Ranunculaceae, Berberidaceae,
 Papaveraceae, Capparidaceae, Cruciferae] Semeistva: Rogolistnikovye,
 Liutikovye, Barbarisovye, Makovye, Kapersovye, Krestotsvetnye. 1955.
 297 p. (MIRA 9:10)

1. Chlen-korrespondent Akademii nauk SSSR (for Shishkin)
 (Kirghizistan--Botany)

NIKITINA, Ye.V.; POPOVA, L.I.; AYDAROVA, R.A.; KASHCHENKO, L.I.; PROTOPOPOV,
G.F.; UBUKSYEVA, A.U.; TKACHENKO, V.I.; KORNEVA, I.G.; OBOZOV, A.O.;
GOLOVKOVA, A.G.; VVEDENSKIY, A.I., nauchnyy redaktor; TSYBINA, Ye.V.,
tekhnicheskiiy redaktor

[Flora of the Kirghiz S.S.R.; guide to plants of the Kirghiz S.S.R.]
Flora Kirgizskoi SSR; opredelitel' rastenii Kirgizskoi SSR. Frunze,
Izd-vo AN Kirgizskoi SSR. Vol.7. 1957. 642 p. (MLA 10:9)
(Kirghizistan--Botany)

NIKITINA, Ye.V.; AYDAROVA, R.A.; KASHCHENKO, L.I.; UBUKEYEVA, A.U.;
POPOVA, L.I.; TKACHENKO, V.I.; GOLOVKOVA, A.G., SHPOTA, Ye.I.;
FILATOVA, N.S.; SHARASHOVA, V.S.; VVEDENSKIY, A.I., nauchnyy red.;
VYKHODTSEV, I.V., red.; ANOKHINA, M.G., tekhn.red.

[Flora of the Kirghiz S.S.R.; key to the plants of the Kirghiz
S.S.R.] Flora Kirgizskoi SSR; opredelitel' rastenii Kirgizskoi
SSR. Sost. E.V.Nikitina i dr. Nauchn.red. A.I.Vvedenskii. Frunze,
Izd-vo Akad.nauk Kirgizskoi SSR. Vol.8. [The carrot, dogwood, winter-
green, heath, primrose, leadwort, olive, gentian, dogbone, milkweed,
and morning-glory families] Semeistva: zontichnye, kizilovye, grushan-
kovye, vereskovye, pervotsvetnye, svinchatkovye, maslinovye, gore-
chavkovye, kutrovye, lastovnevye, v'iunkovye. 1959. 222 p. Vol.9.
[The mint and nightshade families] Semeistva: gubotsvetnye i pasle-
novye. 1960. 213 p. (MIRA 13:7)
(Kirghizistan--Dicotyledons)

NIKITINA, Ye.V.; AYDAROVA, R.A.; UBUKEYEVA, A.U.; FILATOVA, N.S.;
SUDNITSYNA, I.G.; TKACHENKO, V.I.; SHARASHOVA, V.S.;
KASHCHENKO, L.I.; SHPOTA, Ye.I.; VVEDENSKIY, I.I., nauchnyy
red.; VYKHODTSEV, I.V., otv. red.; SORONBAYEVA, N.V., red.
izd-va; ANOKHINA, M.G., tekhn. red.

[Flora of the Kirghiz S.S.R.; classification key of the plants
of the Kirghiz S.S.R.] Flora Kirgizskoi SSSR; opredelitel' ra-
stenii Kirgizskoi SSSR. Sost. E.V.Nikitina i dr. Nauchn. red.
A.I.Vvedenskii. Frunze, Izd-vo Akad.nauk Kirgizskoi SSR.
Vol.10. [Families: Cuscutaceae, Polemoniaceae, Boraginaceae,
Verbenaceae, Scrophulariaceae, Bignoniaceae, Orobanchaceae,
Lentibulariaceae, Plantaginaceae, Rubiaceae, Caprifoliaceae,
Adoxaceae, Valerianaceae, Morinaceae, Dipsacaceae, Cucurbitaceae,
Campanulaceae, Lobeliaceae] Semeistva: Povilikovye, Siniukhovye,
Burachnikovye, Verbenovye, Norichnikovye, Bignonievye, Zarazi-
khovye, Puzyrchatkovye, Podorozhnikovye, Marenovye, Zhimolostnye,
Adoksovye, Valerianovye, Morinovye, Vorsiankovye, Tykvennye,
Kolokol'chikovye, Lobelievye. 1962. 387 p. (MIRA 15:9)
(Kirghizistan--Dicotyledons)

KASHCHENKO, L.I., dots.; DEZA, N.I., dots.; KHRIPCHENKO, M.G.,
red.

[Manual on the collection of herbaria and the description
of plants for students of the agronomy zoology, and
veterinary faculties] Posobie po sboru gerbariia i opisa-
niiu rastenii dlia studentov agronomicheskogo, zoologiche-
skogo i veterinarnogo fakul'tetov. Frunze, 1964. 14 p.
(MIRA 18:9)

1. Frunze. Kirgizskiy sel'skokhozyaystvennyy institut. Ka-
fedra botaniki i fiziologii rastenii.

KASHCHENKO, L.S.

— Signaling device of the milling cylinder sleeve. Torf.prom. 39
no.3:32 '62. (MIRA 15:4)

(Peat machinery)

GORENSHTEYN, A.B., kand. tekhn. nauk; KASHCHENKO, L.S.

Efficiency of air separation from milled peat in cyclone=
bunker separators. Trudy VNIITP no.18:17-24 '61.
(MIRA 17:1)

KASHCHENKO, Nikolay Feofanovich

[Siberian orcharding] Sibirskoe sadovodstvo. Moskva,
Izd-vo sel'khoz. lit-ry, 1963. 214 p. (MIRA 19:1)

KASHCHENKO, O. D.

KASHCHENKO, O. D. -- "Methods of Teaching the Translation from a Foreign Language into the Native Language (In the Ninth Class of Intermediate School, Based on Material in the German Language)." Moscow, 1956.
(Dissertation for the Degree of Candidate in Pedagogical Sciences).

So.: Knizhnaya Litopis', No. 7, 1956.

KASHCHENKO, Petr Mikhaylovich; KHOROSHAVIN, Nikolay Ivanovich; GINZBURG, L.N.,
red.; VORONIN, K.P., tekhn. red.

[Winning block peat for fuel with the TEMP excavator] Dobycha
kuskovogo toria na toplivo ekskavatorami TEMP. Moskva, Gos.
energ. izd-vo, 1958. 104 p. (MIRA 11:8)

(Peat)

KASHCHENKO, P.M.

Ways of raising labor productivity in the mechanized harvesting
of excavated peat. Torf. prom. no.1:13-15 '58.

(MIRA 12:12)

1.Sverdlovskiy sovnarkhoz.

(Peat industry--Equipment and supplies)

KASHCHENKO, V., instruktor (Irkutsk).

How to adjust the PKD device. Voen. znan. 34 no.1:24 Ja '58.
(Firearms--Sights) (MIRA 11:2)

TARASOV-AGALAKOV N.; VOZYAKOV, V.; GOLUBEV, S.; LAVROV, D.; ANANOV, I.;
GELAKH, V.; BOLANIN, N.; KASHCHENKO, V.; MAKAROV, M.; GOLOSTIN, M.;
ZNAMENSKIY, N.; DZHALALOV, I.; GLEBOV, V.; CHELYSHEV, F.;
D'YAKOV, N.; BRAUN, P.

Georgii Innokent'evich Zhukov; obituary. Pozh.delo 5 no.7:32
Jy '59. (MIRA 12:9)
(Zhukov, Georgii Innokent'evich, d.in 1959)

KASHCHENKO, V.; PAVLOV, starahiy mekhanik

Take care of the SDU-138. Den. 1 kred. 20 no.9:64-67 S '62.

(MIRA 15:9)

1. Glavnyy bukhgalter Cherkasskoy oblastnoy kontory Gosbanka
(for Kashchenko). 2. Glavnaya bukhgalteriya Cherkasskoy oblastnoy
kontory Gosbanka (for Pavlov).

(Cherkassy Province--~~Accounting machines~~--Maintenance and repair)

KASHCHENKO, V.

We are simplifying the preparation of branch schedules. Den. i kred.
21 no.9:70-72 S '63. (MIRA 16:10)

1. Glavnyy bukhgalter Cherkasskoy oblastnoy kontory Gosbanka.

KERBABAYEV. B. B.; KASHCHENKO, V. A.

Amu Darya Valley - Licorice

Seed regeneration of Licorice (*Glycyrrhiza glabra* L.) in the Amu Darya Valley. Izv.
Turk.fil. AN SSSR No. 2, 1949.

Monthly List of Russian Accessions, Library of Congress, November 1952. UNCLASSIFIED.

KASHCHENKO, V. A.

USSR/Medicine - Roentgenology

FD-703

Card 1/1 : Pub 132 13/22

Author : Gol'tsman, Ye. M. and Kashchenko, V. A.

Title : The diagnostic value of some roentgenographically discovered changes in the occipital bone when there are tumors in the posterior skull cavity

Periodical : Vest. Rent. i Rad.^{No 3} 65-68, May/June 1954

Abstract : X-rays of the skull in 90% of the patients suffering from tumors in the posterior skull cavity show a regular narrowing of the posterior hemisphere of the large occipital orifice. This change should be considered as a local symptom arising as a result of the direct pressure of the tumor on the basal division of the occipital bone.

Institution : Leningrad Scientific-Research Neurosurgical Institute imeni Professor A. L. Polenov (Director - Acting Member Academy of Medical Sciences USSR Professor V. N. Shamov)

Submitted : Presented at the IV All-Russian Neurosurgical Conference at Rostov-on-Don, June 1953.

MINERVIN, V.N. [deceased]; ASHIROVA, A.A.; KASHCHENKO, V.A. [deceased];
KERBABAYEV, B.B.; TARASOV, R.P.

Anabasis aphylla L. in Turkmenia. Trudy Inst. bot. AN Turk.
SSR 6:5-59 '60. (MIRA 15:8)
(Turkmenistan—Anabasis (Botany))

GUSAREV, V.F., assistant (Zaporozh'ye, ul. Krasnogvardeyskaya, d.38,
kv.16); LOMAKIN, M.M.; KASHCHENKO, V.G.

Comparative evaluation of different types of endotracheal potenti-
alized anesthesia. Klin.khir. no.9a/9-52 S '62. (MIRA 16:5)

1. Khirurgicheskoye otdeleniye (zav. - Ye.N. Knysh) Klinicheskoy
bol'nitsy No.3 g. Zaporozh'ya.
(INTRATRACHEAL ANESTHESIA)

KASHCHEYEV, V.N.

Effect of spin-phonon interaction in ferromagnetics on the
Debye-Waller factor. Kristallografiia 8 no.3:333-337 My-Jr
'63. (MIRA 16:11)

1. Institut fiziki AN Latvyskoy SSR.

KASHCHEYEV, V.N.

Theory of infrared light absorption in crystals. Four-phonon interaction. Fiz. tver. tela 5 no.8:2339-2344 Ag '63. (MIRA 16:9)

1. Institut fiziki AN Latvyskoy SSR, Riga.
(Crystals--Optical properties) (Infrared rays)

KASHCHEYEV, V.N.

Wear of an analogous friction pair. Fiz. Met. i metalloved.
16 no.3:463-466 S '63. (MIRA 16.11)

1. Sibirskiy fiziko-tekhnicheskiy institut.

KASHCHENKO, V.V.

Discussing V.I. Fel'dman's article "Design of cast iron manhole covers." Vod. i san. tekhn. no.9:26-27 S '58. (MIRA 11:10)
(Manholes)

KASHCHENKO, V.V., inzh.

Operation of city water-supply systems. Gor.khoz.Mosk. 36
no.8:29-31 Ag '62. (MIRA 16:1)

1. Nachal'nik Sluzhby seti Moskovskogo vodoprovodnogo tresta
Upravleniya vodoprovodno-kanalizatsionnogo khozyaystva
Moskovskogo gorodskogo ispolnitel'nogo komiteta Moskovskogo
gorodskogo soveta deputatov trudyashchikhsya.
(Moscow--Water supply)

1. KASHCHENKO, Ye. B.
2. USSR (600)
4. Poultry
7. 121 eggs per laying hen. Ptitsevodstvo No. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

AGAPOVA, T.I., red.; DORODNOV, Ye.V., red.; KASHCHENKO, Ye.I., red.; KRUSHANOV, A.I., red.; REYKHBERG, G.Ye., red.; VOROB'YEV, V.V., red.; BORZUNOV, V.F., red.

[Abstracts of papers and reports of the Third Far Eastern Conference on History, archaeology and Ethnography Section: Socialist building projects in Siberia and the Far East] Tezisy dokladov i soobshchenii. Sektsiya: Sotsialisticheskie novostroiki Sibiri i Dal'nego Vostoka. Komsomol'sk-na-Amure, Komsomol'skii-na-Amure Gospedinstitut, 1962. 76 p. (MIRA 17:9)

1. Dal'nevostochnaya konferentsiya po istorii, arkheologii i etnografii. 3d, Komsomolsk-on-Amur, 1962.
2. Komsomol'skiy-na-Amure Gosudarstvennyy pedagogicheskii institut (for Kashchenko). 3. Dal'nevostochnyy filial Sibirskogo otdeleniya AN SSSR (for Reykhberg).
4. Institut geografii Sibirskogo otdeleniya AN SSSR (for Vorob'yev). 5. Institut istorii AN SSSR (for Borzunov).

"APPROVED FOR RELEASE: 06/13/2000

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APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721010013-6"

PA 243T91

KASHCHENKO, YU. D.

USSR/Mathematics - Pedagogy

Nov/Dec 52

"Reduction of a Multiple Lebesgue Integral to a Double Integral," L.D. Kudryavtsev and Yu.D. Kashchenko

"Usp Matemat Nauk" Vol 7, No 6 (52), pp 211, 212

Article appears in "Notes on Methodology" section of "Usp Matemat Nauk." Discusses V. I. Smirnov's formulation of the general theorem of Fubini in which an error has been detected. Corrects this error, which occurred in Smirnov's "Kurs Vysshey Matematiki" (Course on Higher Mathematics), Vol 5, State Technical Press, 1947.

243T91

KUDRYAVTSEV, L. D.; KASHCHENKO, YU. D.

Integrals

Substitution of variable in an integral. Dokl. AN SSSR 84, No. 4, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952. Unclassified.

16.2600

77806
SOV/42-15-1-13/27

AUTHOR: Kashchenko, Yu. D.

TITLE: On an Inequality for Differentiable Function of Many Variables

PERIODICAL: Uspekhi matematicheskikh nauk, 1960, Vol 15, Nr 1, pp 203-206 (USSR)

ABSTRACT: Let R_n be n-dimensional Euclidean space, $L_p(G)$ be the set of functions whose p-th power is summable on G, G is an open set contained in R_n . The derivative is to be understood as the generalized derivative in the sense of Ref 2 (S. M. Nikol'skiy: A Property of Some Classes of Functions of Many Variables on Differentiable Manifolds, Mat. sb. 33 (75): 2 (1953), 261-326). If f has partial derivatives of order 1 in G, whose p-th power is summable then this is denoted by $f \in W_p^{(1)}(G)$. For $f \in L_p(G)$

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the norm is defined as $\left(\int |f|^p dG \right)^{1/p}$. As usual

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of Many Variables

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under G_y ($x = (x_1, \dots, x_{n-1})$, $y = x_n$) the projection of G on the axis y , and under $G_x(y_0)$ the intersection of G with the hyperplane $y = y_0$ is understood. G_x and $G_y(x)$ are analogously defined. Let $2 \leq n < \infty$, $1 \leq p < \infty$, $r = \bar{r} + \alpha$ where \bar{r} is a non-negative integer and $0 < \alpha \leq 1$. $H_p^{(r)}(G, M)$ denotes the set of all $f \in L_p(G)$ having generalized partial derivatives $f_{x_1}^{(r)} \in L_p(G)$ such that

$$\|\Delta_{x_i}^{(\bar{r})}(f_{x_1}^{(r)}, h)\|_{L_p(G_\eta)} \leq M|h|^\alpha \quad (i = 1, \dots, n; \eta > 0; |h| < \eta;$$

where M is some constant. G_η is the set of points in G whose distance to the boundary of G is greater than η . The bounded domain G will be called elementary relative to the direction of the axis y ($x = (x_1, \dots, x_{n-1})$, $y = x_n$) if there exists a hyperplane $y = c_0$ such that for some $\theta > 0$ the expression

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On an Inequality for Differentiable Function $\gamma(306)$
of Many Variables

SOV/42-15-1-13/27

$$\Delta = \bigcup_{(x,y) \in R_n} \{x \in G_x; c_0 \leq y \leq c_0 + \theta\} \subseteq G$$

is valid, and for arbitrary $x \in G_x$ the intersection of the line, passing through x and parallel to the y -axis, with the domain G is a finite interval. The subset Δ of G will be called cylindrical relative to the direction of the y -axis. A domain is elementary if it is elementary relative to some direction. The main result is the following: Theorem: Let G be a domain in R_n ($2 \leq n < \infty$) such that for some η there exists a covering of the set

$$G \setminus G_n \subseteq \bigcup_{q=1}^N G_q \quad (N < \infty)$$

of elementary domains $G_q \subseteq G$, where $\Delta_q \subseteq G_{\eta}$ ($q = 1, \dots, N$). Further, let $f \in W_p^{(1)}(G)$, $1 \leq p \leq \infty$. Then

$$\|f_{x_1}^{(0)} \dots x_n^{(0)}\|_{L_p(G)} \leq A \|f\|_{L_p(G)} + B \sum_{i_1 + \dots + i_n = 1} \|f_{x_1}^{(0)} \dots x_n^{(0)}\|_{L_p(G)}. \quad (1)$$

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On an Inequality for Differentiable Function of Many Variables 77806
SOV/42-15-1-13/27

where $k_1 + \dots + k_n = k$, $k = 0, 1, \dots, 1$ and the constants A and B are independent of the function $f \in W_p^{(1)}(G)$. The proof of this theorem utilizes the lemma: Let G be an elementary domain, and $\varphi \in W_p^{(1)}(G)$ ($1 \leq p < \infty$). Then

$$\|\varphi\|_{L_p(G)} \leq a \|\varphi\|_{L_p(G)} + b \sum_{k=1}^n \|\varphi_{x_k}'\|_{L_p(G)}, \quad (2)$$

where the constants a and b are independent of $\varphi \in W_p^{(1)}(G)$. Note that (1) holds also for $n = 1$. There is 1 figure; and 5 Soviet references.

SUBMITTED:

September 1, 1958

Card 4/4

KASHCHENKO, Yu.S., agronom

Chemical means for controlling the aquatic vegetation in the
irrigation canals of Golodnaya Steppe. Gidr. i mel. 16 no.6:
40-46 Je '64. (MIRA 17:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhniki
i melioratsii imeni A.N. Kostyakova.

BUR'YANOVA, Ye.Z.; KASHENOVA, A.G.

Using semiquantitative selenium measurement. Razved. i okh.
nedr. 30 no.3:55-58 Mr '64 (MIRA 18:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskii institut.

KASHCHENETTS, P.Ye., inzh.; ZOSIM, Ye.N., inzh.

Using germanium diodes in quenching circuits. Energetik 8 no.4:26-
27 Ap '60. (MIRA 13:8)
(Germanium diodes) (Electric circuit breakers)

KASHCHEVSKAYA, L. A.

"Some Special Features of the Clinical Treatment of Diabetes," Sov. Med.,
No. 2, 1949. 1st Therapeutic Clinic, Moscow Regional Sci. Res. Inst.

KASHCHEVSKAYA, L. A.

ZHIGALOV, V. P., KASHCHEVSKAYA, L. A.

Modification of ascorbic acid metabolism in blood transfusion. Klin.
med., Moskva 28:8, Aug. 50. p. 90

1. Of the First Therapeutic Clinic (Director—Prof. Ye. M. Tareyev)
and of the Experimental Department (Head—V. S. Kiselev), Moscow
Obolast Scientific-Research Clinical Institute, Moscow.

CLML 19, 5, Nov., 1950

KASHCHEVSKAYA, L. A.

"Sugar Diabetes and Vitamin Deficiency." Sub 27 Nov 51,
Central Institute for the Advanced Training of Physicians.

Dissertations presented for science and engineering degrees
in Moscow during 1951.

SO : Sum. No. 480, 9 May 55

KASHCHEVSKAYA, L.A.

KASHCHEVSKAYA L. A.

Metody funktsional'noi diagnostiki pecheni.

function tests/ Methods of liver
Sovet. med. No. 6 June 51 p. 22-4.

1. Candidate Medical Sciences. 2. Moscow.

KASHCHEVSKAYA, L. A.

Thymol and cephalin test in liver diseases. Klin. med., Moskva
29 no.8:58-61 Aug 1951. (CLML 20:11)

1. Of the First Therapeutic Clinic (Director -- Prof. Ye. M.
Tareyev), Moscow Oblast Scientific-Research Clinical Institute,
Moscow.

KASHCHEVSKAYA, L.A.

Effect of strong auditory stimulation on the ascorbic acid content of tissues and urine in white rats. Biul. eksp. biol. i med. 37 no. 3: 37-41 Mr '54. (MLBA 7:6)

1. Iz biokhimicheskoy laboratorii (sav. doktor med. nauk L.A. Kashchevskaya) Tsentral'nogo kozhno-venerologicheskogo nauchno-issledovatel'skogo instituta (dir. dotsent N.M. Turanov) Ministerstva zdoravookhraneniya SSSR, Moskva.

(VITAMIN C, metabolism,

*eff. of noise in white rats)

(NOISE, effects,

*on vitamin C metab. in white rats)

Translation M-112, 21 Jan 55

KASHCHEVSKAYA, L.A.

ANAN'YEV, M.G.; GOLUBEVA, I.V.; GUROVA, Ye.V.; KASHCHEVSKAYA, L.A.;
LEVITSKAYA, L.A.; KHUDYY, Yu.B.

Preliminary data on experimental electronarcosis induced with an
apparatus developed by the Research Institute for Experimental
Surgical Apparatus and Instruments [with summary in English].
Eksper.khir. 2 no.4:3-7 J1-Ag '57. (MIRA 10:11)

1. Iz Nauchno-issledovatel'skogo instituta eksperimental'noy
khirurgicheskoy apparatury i instrumentov (dir. M.G.Anan'yev)
Ministerstva zdravookhraneniya SSSR.
(ELECTRONARCOSIS, exper.
induction with special appar.)

ASHCHENKOVA, L. A., KOSHEVATOVA, L. L., KAMAROV, M. S., KULEVA, Yu. B.,
GUROVA, E. V., GOLUBEVA, I. V., LEVITSKAYA, L. A.,

Electrosleep and electronarcosis 129

Novye khirurgicheskie apparaty i instrumenty i opyt ikh primeneniye (New
SURGICAL Equipment and Instruments and Experience in Their Use) NO. 1,
Moscow, 1957 A collection of Papers of the Scientific Research Inst.
for Experimental Surgical Equipment and Instruments.

NIIEKAI

KASHCHEVSKAYA, L. A., SAVCHENKO, E. D., BRYUKHONENKO, G. S., SHOKERBAKOVA, T. T.,
PERESTORONIN, S. A., LAPCHINSKII, A. A., LEVITSKAYA, L. A.

Artificial blood circulation and its clinical and experimental 147

Novye khirurgicheskie apparaty i instrumenty i opyt ikh primeneniye (New
SURGICAL Equipment and Instruments and Experience in Their Use) NO. 1,
Moscow, 1957 A collection of Papers of the Scientific Research Inst.
for Experimental Surgical Equipment and Instruments.

NIEKA A11

... L. A., ... L. N., ... A. G., ... S. A.,
FEDOROV, S. F., ... L. A.

Experience in the use of the apparatus for artificial circulation with
electropneumatic automatic installation in experiments on dogs 173

Noye khirurgicheskie apparaty i instrumenty i oyt ikh primeneniye (New
SURGICAL Equipment and Instruments and Experience in Their Use) NO. 1,
Moscow, 1957 A collection of Papers of the Scientific Research Inst.
for Experimental Surgical Equipment and Instruments.

NIIEKH A. I.

USSR / General Problems of Pathology. Shock.

U-4

Abs Jour : Ref Zhur - Biol., No. 10, 1958, No 46748

Author : ~~Kashchavskaya, L. A.~~

Inst : Not given

Title : The Dynamics of Ascorbic Acid Contained in Blood at the Presence of Shock.

Orig Pub : Byul. experim. biol. i meditsiny, 1957, 43, No. 4, 60-67

Abstract : During a 3-week sensitization period no changes of the ascorbic acid (I) content were detected in dogs sensitized with the serum of healthy horses (0.5 ml/kg was given for 3 consecutive days). If shock was developing and reached its highest point, however, a decrease of the restored form concentration of (I) was observed within the first 1-3 minutes after a decisive injection (DI) of antigen (1 ml/kg), followed by a manifold increase of (I), especially in the venous blood. A preliminary saturation of the

Card 1/3

Hol, Biochem Lab - Sci Res Inst.

Egyptl. Surgical Apparatus & Instruments

KASHCHEVSKAYA, L.A.

Biochemical changes in the blood of dogs during artificial blood circulation [with summary in English]. Eksp. khir. 3 no. 4: 27-35
Jl-Ag '58 (MIRA 11:9)

1. Iz Nauchno-issledovatel'skogo instituta eksperimental'noy
khirurgicheskoy apparatury instrumentov (dir. M.G. Anan'yev)
Ministerstva zdavookhraneniya SSSR.

(HEART, artif.

extracorporeal circ., biochem. blood changes in dogs
(Rus))

(BLOOD

biochem. changes during artif. blood circ. in dogs
(Rus))

ANAN'YEV, M.G.; VAYNRIB, Ye.A.; CORBOVITSKIY, Ye.B.; KOZLOV, Yu.G.;
KASHCHEVSKAYA, L.A.; LEVITSKAYA, L.A.; GOL'DINA, B.G.; SUPKO,
N.S.; IVANOVA, L.N.; UNIK, V.I.

"Artificial kidney" apparatus built by the Research Institute for
Experimental Surgical Apparatus and Instruments and the results of
using it in an experiment. Trudy NIIKHAI no.5:168-173 '61.

(MIRA 15:8)

1. Nauchno-issledovatel'skiy institut eksperimental'noy khirurgi-
cheskoy apparatury i instrumentov.

(ARTIFICIAL KIDNEY)

ANAN'YEV, M.G.; GORBOVITSKIY, Ye.B.; KOZLOV, Yu.G.; GOL'DINA, B.G.;
~~KASHCHEVSKAYA, L.A.~~; LEVITSKAYA, L.A.; IVANOVA, L.N.; SUPKO,
N.S.; TKACHENKO, A.S.; UNIK, V.I.

Study of and experience in the use of the Soviet artificial
kidney apparatus. Sov.med. 26 no.7:15-20 J1 '62. (MIRA 15:11)

1. Iz Nauchno-issledovatel'skogo instituta eksperimental'noy
khirurgicheskoy apparatury i instrumentov (dir. M.G.Anan'yev).
(KIDNEYS, ARTIFICIAL)

BELEZIN, I.P.; EPSHTEYN, I.M.; KASHCHEVSKAYA, L.A.

Use a pair of gold and iron electrodes in electrochemical registration of the oxygen regime in tissues in vivo. Eksper. khir. i anest. 9 no.3:18-19 My-Je '64. (MIRA 18:3)

1. Nauchno-issledovatel'skiy institut eksperimental'noy khirurgicheskoy apparatury i instrumentov (dir. M.G. Anan'yev) i Onkologicheskiiy institut imeni Gertsena (dir. - prof. A.N. Novikova), Moskva.

KASHCHEYEV, A.

GALZYEV, Sh.; KHUDYAKOV, P.; KASHCHEYEV, A.; ALADOVA, Ye.I., tekhnicheskii
redaktor

[Our mine in the fifth five-year plan; mine no.19 of the Chelya-
binsk Coal Combine] Nasha shakhta v piatol piatiletke; shakhta no.19
kombinata Cheliabinskugol'. Moskva, Ugletekhizdat, 1954. 69 p.
(Chelyabinsk--Coal mines and mining) (MIRA 8:7)

S/137/61/000/003/048/069
A006/A101

AUTHORS: Chaplinskiy, I.A., Kashcheyev, A.F., Kolmogorova, V.F.

TITLE: On corrections to strained state in the journal of specimens

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 3, 1961, 26, abstract 3Zh164
("Tr. Khim.-metallurg. in-ta Sib. otd. AN SSSR", no. 4, 1960, 153-158)

TEXT: Corrections to mean tensile stress in the journal of specimens suggested by a number of authors, were experimentally checked. A comparison was made of linear elongation and compression curves of quenched and tempered "50" grade steel and technically pure Fe in delivery state. During compression tests friction forces, acting upon the transmission planes of compressing forces, were removed by multiple greasing of the specimen butts. A comparison of plastic deformation curves was made in coordinates of intensity of true stress σ_1 versus intensity of true deformation ϵ . It was established that the corrections to the strained state in the specimen journal suggested, were insufficient, in particular, for metals with a metastable structure, due to the effect of the magnitude of the spherical component of the stress tensor. It is shown that when using N.N. David-
Card 1/2

On corrections to strained state in the Journal ...

S/137/61/000/003/048/069
A006/A101

denkov's and N.I. Spiridonova's correction on the approximate allowance for the effect of the magnitude of the spherical tensor from the hydrostatic tensile stress on the resistance to plastic deformation, results are obtained which are practically in agreement with the theory of the magnitude of the spherical stress tensor affecting the resistance of metal to plastic deformation.

L. G.

[Abstracter's note: Complete translation.]

Card 2/2

KASHCHEYEV, A.M.

PRAMNEK, G.F., kand.tekhn.nauk, nauchnyy sotrudnik; KASHCHEYEV, A.M., inzh.
kand.tekhn.nauk, nauchnyy sotrudnik.

Equipment of automatized transduction of telegrams with coded
commutation. Vest.svyazi 18 no.3:3-6 Mr '58. (MIRA 11:4)

1.TSentral'nyy nauchno-issledovatel'skiy institut svyazi.
(Telegraph--Automatic systems)

KASHCHEYEV, A. Ya.

Technology

Innovators of Cheliabinsk basin, Moskva, Ugletekhizdat, 1951.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

KASHCHAYEV, B. I.

"Voltmeter With Fixed Reading "

Tr. Kharkovsk, Politekhn. In-ta, 3, 1954, Ser Electroradiotekhn,
No 1, 257-258

Design of instrument for measuring the potential of a single pulse is described. The measuring element consists of a thyatron. If the plate current varies, the starting voltage of the ~~X~~ thyatron also varies. A variant of the instrument is used for measuring the temperature of small metallic parts. (RZhFiz, No 9, 1955)

SO: Sum-No 787, 12 Jan 56

KASHCHEYEV, B.L.

109-7-1/17

AUTHOR
TITLE

PERIODICAL
ABSTRACT

PROSHKIN, Ye.G., KASHCHEYEV, B.L.
A Study of the Discontinuity in the F-Layer of the Ionosphere
(Issledovaniya neodnorodnoy struktury F-sloya ionosfery. Russian)
Radiotekhnika i Elektronika, 1957, Vol 2, Nr 7, pp 819-825 (U.S.S.R.)

The ionosphere station of the department for "Principles of Radio Engineering" of the Polytechnical Institute of Khar'kov was used for the investigations of the daily and annual course of the degree of heterogeneity in the F-layer of the ionosphere and for the determination of the average quadratic velocities of heterogeneities. This paper describes the testing plant and the measuring method as well as the results of measurement. On the basis of the latter the following can be said: 1.) The β -values which determine the degree of heterogeneity of the reflecting region are subject to the law of relay. 2.) In 90 % of cases the distribution of the amplitudes of signals reflected by the F-layer is subject to the normal or to the relay law. 3.) By day β can assume various chance values from 0 to 11,5, which means that the relation of the energy of the specularly-reflected wave to that of the scattered wave may vary from 0 - 132. 4.) By day the specular reflection ($\beta \geq 1$) prevails in 90 % of the cases. In 50 % of the cases $\beta \geq 3,3$, i.e. the energy of the specularly-reflected wave exceeded that of the scattered wave

Card 1/2

KASHCHEYEV, B. L.

AUTHORS: Proshkin, Ye. G., Kashcheyev, B. L.

56-4-44/54

TITLE: Fluctuation of the Electron
Concentration in the F-Layer of the Ionosphere (K voprosu
o fluktuatsiyakh elektronnoy kontsentratsii v F-sloye
ionosfery). (Letter to the Editor)

PERIODICAL: Zhurnal Eksperim. i Teoret. Fiziki, 1957, Vol. 33, Nr 4,
pp. 1062-1062 (USSR)

ABSTRACT: For determining the inhomogeneous character of the
ionosphere the following two methods are used:
1) The method of vertical probing for determining the
fine structure of the ionosphere.
2) The method of the transmission of ultrashort waves.
The value for δN for ordinary fields was calculated from
the known experimental values (method 1). In the calculations
the dimensions of the inhomogeneity were assumed with
300 m. The distribution curve of the δN values shows values
from δN to $(0,1 - 2,5) \cdot 10^{-2}$, where the values $\delta N = (0,3 - 0,5) \cdot 10^{-2}$
occur most often. A marked height dependence on $\Delta \delta N$
for the F-layers was not noticed.
There are 1 figure and 2 Slavic references.

CARD 1/2

S/035/60/000/006/018/038
A001/A001

3.1540

Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1960, No. 6,
pp. 47-48, # 5196

AUTHOR: Kashcheyev, B. L.

TITLE: Measuring Meteor Speeds by Radar Method

PERIODICAL: Astron. tsirkulyar, 1957, dek. 21, No. 187, pp. 21-23

TEXT: A radar installation was designed and constructed by a group of scientific workers of the Khar'kovskiy politekhnicheskii institut (Khar'kov Polytechnic Institute) for measuring individual speeds of meteors. Speed is determined from diffraction pictures of changes in amplitude of radiosignals reflected from the meteoric trails

$$V = \frac{\nabla}{2} F \frac{\sqrt{R \lambda}}{p}$$

where ∇ is Fresnel integral, F is pulse frequency, p is the number of pulses observed between certain maxima or minima of Fresnel zones. R is inclined distance to the trail, λ is wavelength. In the installation described

Card 1/2

KASHCHYYEV, B.

Observations of aurora borealis in Kharkov Province. Astron. tsir.
no. 186:24 N '57. (MIRA 11:4)

1. Khar'kovskiy politekhnicheskii institut.
(Auroras)

SOV/169-59-3-2979

Translation from: Referativnyy zhurnal, Geofizika, 1959, Nr 3, p 136 (USSR)

AUTHORS: Kashchev, B.L., Dudnik, B.S., Lagutin, M.F., Lysenko, I.A.,
Toistov, V.V.

TITLE: ²Radar Observations of the Meteor²Activity

PERIODICAL: Mezhdunar. geofiz. god. Inform. byul., 1958, Nr 1, pp 38-42
(Engl. Res.)

ABSTRACT: The article contains the results of meteor activity observations, which were performed in Khar'kov in accordance with the IGY program during the period from July to December 1957. The observations were carried out by a radar method in the 72 Mc range. More than 10,000 meteors were recorded. A circuit is discussed which may be used for meteor observations in the presence of strong noise.

Authors' résumé



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SOV/169-59-4-4033

Translation from: Referativnyy zhurnal, Geofizika, 1959, Nr 4, p 123 (USSR)

AUTHORS: Dudnik, V.S., Kashcheyev, B.L., Lagutin, M.F., Lysenko, I.A.

TITLE: The Measurement of the Meteor Velocity by the Diffraction Method

PERIODICAL: Mezhdunar. geofiz. god., Inform. byul., 1958, Nr 1, pp 51 - 62
(Engl. Res.)

ABSTRACT: The Khar'kovskiy politekhnicheskii institut (Khar'kov Polytechnic Institute) performed radar measurements of the meteor velocity using the pulse method. The changes of the distance to the meteor cause an interference of the reflected waves and echo amplitude variations. Hence, the meteor velocity can be found after having determined the distance to the meteor. The paper contains a description of the principal circuit diagram of the device used for studying the meteor stream of the Geminids. A velocity of 35 ± 2.5 km/sec was obtained for the meteors of this stream.

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DUDNIK, B.S.; KASHCHYEV, B.L.; LAGUTIN, M.F.; LYSENKO, I.A.; TOLSTOV, V.V.;
DELOV, I.A.

Studying meteoric activity by means of radar on a frequency of 72 mc.
Izv.vys.ucheb.zav.; radiofiz. 1 no.2:66-70 '58. (MIRA 11:11)

1. Khar'kovskiy politekhnicheskii institut.
(Meteors) (Radar in astronomy)

KASHCHHEYEV, B.L.; BONDAR', B.G.; PROSHKIN, Ye.G.

Ionosphere station. Izv. vys. ucheb. zav.; radiotekh. no.1:76-81
Ja-F '58. (MIRA 11:4)

1. Rekomendovana kafedroy teoreticheskikh osnov radiotekhniki
Khar'kovskogo politekhnicheskogo instituta im. V.I. Lenina.
(Radio meteorology) (Ionosphere)

KASHCHAYEV, B.L.; LYSSENKO, I.A.; CHEPURA, V.F.

Measuring wind speeds at altitudes of 80 to 120 km by reflections
from meteors. Biul. Kom. po komet i meteor. AN SSSR no.3:9-14 '58
(MIRA 13:3)

1. Khar'kovskiy politekhnicheskii institut.
(Atmosphere, Upper)

SOV/109-3-11-5/13

AUTHORS: Dudnik, B.S., Kashcheyev, B.L., Lagutin, M.F. and
Lysenko, I.A.

TITLE: A Protection System Against the Pulse Interference in the
Equipment for the Recording of Meteoric Activity
(Sistema zashchity ot impuls'nykh pomekh v apparature,
registriruyushchey meteornuyu aktivnost')

PERIODICAL: Radiotekhnika i Elektronika, 1958, Vol 3, Nr 11,
pp 1379 - 1383 (USSR)

ABSTRACT: The equipment developed by the Astronomical Observatory
imeni Engel'gart (Ref 1) for the observation of the
activity of meteors is inadequate in that it is subject
to the influence of external interference. The equipment
was therefore modified in the Khar'kovskiy politekhnicheskii
institut (Kharkov Polytechnical Institute) in such
a way as to eliminate the effect of pulse interference.
The resulting protection system consists of a signal
channel and an interference channel (Figure 1). Both
channels are provided with identical receivers in which
it is possible to tune the local oscillator and the ultra-
high frequency units. The receivers are connected to two
antennae, A_C and A_{\square} . The receiver of the signal

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A Protection System Against the Pulse Interference in the Equipment
for the Recording of Meteoric Activity

channel is tuned to the frequency f_c of the radar station while the receiver of the interference channel is tuned to a frequency f_{Π} which is chosen in such a way that $f_{\Pi} = f_c \pm k\Delta F$, where ΔF is the bandwidth of the receiver and k is the de-tuning coefficient which is of the order of 4-8. The difference in the centre frequencies of the two receivers is necessary in order to make the interference channel insensitive to the useful signals; on the other hand, both the receivers are sensitive to the interference since its energy is spread over a spectrum which is much wider than that of the signal. The video-detector of the interference channel is followed by a selector-amplifier which produces rectangular pulses having an amplitude of 200 V; the pulses are independent of the intensity of the interference provided the latter is greater by a factor of 2.5 than the noise level. The output of the video-detector of the signal receiver is also followed by a

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selector-amplifier which produces rectangular pulses. The length of the pulses is proportional to the duration of the signal at the output of the detector (at the limiting level). These pulses are applied to a special stage consisting of two tubes (Figure 2) having a common cathode load consisting of two tuned circuits. Normally, this device is conducting but in the presence of a negative pulse, the resonant circuits produce an oscillatory transient, as can be seen in Figure 3. If the time constants of the resonant circuits are suitably chosen, the output transient of the circuit of Figure 2 will contain a positive overshoot. The output signal from this circuit (which is, in effect, a delay circuit) is applied to the input of a selector tube which can be opened by the positive peaks. The second grid of the selector tube (pentode) is connected to the output of the interference channel. Consequently, in the presence of a negative pulse in the interference channel, the selector tube is closed even if a positive peak is delivered by the signal channel. An interference pulse which appears in both the channels will therefore be

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stopped at the selector tube. The above protection system is employed at the meteor station of the Khar'kov Polytechnical Institute, which is carrying out investigations for the IGY (Refs 2 and 3). The improvement obtained by using the protection system is illustrated in Figure 4a and 4b; the first figure shows a record of the meteoric activity in the absence of the protection system, while the second picture illustrates the improvement. There are 4 figures and 4 Soviet references.

SUBMITTED: April 16, 1958

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9.9/30

S/169/60/000/007/014/016
A005/A001

Translation from: Referativnyy zhurnal, Geofizika, 1960, No. 7, p. 204, # 8469

AUTHORS: Kashcheyev, B.L., Bondar', B.G.

TITLE: Investigation of the Ionosphere During the Solar Eclipse on June 30, 1954

PERIODICAL: Tr. Khar'kovsk. politekhn. in-ta, 1958, Vol. 20, pp. 77-79

TEXT: On June 30, 1954, a vertical sounding of the ionosphere was carried out in Khar'kov (phase of eclipse-98%) for the investigation of the variation of the active altitudes at fixed frequencies. Essential variations of the active altitudes were detected during the eclipse, but the sporadic E_s layer prevented the continuous observation of reflections from the F layer. ✓B

Author's abstract.

Translator's note: This is the full translation of the original Russian abstract.

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KASHCHENYEV, B.L.

Changes in the velocity of Geminids. Astron. tsir. no. 188:26 Ja '58.
(MIRA 11:6)

1. Khar'kovskiy politekhnicheskii institut im. Lenina, kafedra
osnov radiotekhniki.

(Meteors--December)

KASHCHEYEV, B.; LUK'YASHKO, D.

Meteor activity of the Quadrantid shower. Astron. tsir. no.189:
19-20 F '58. (MIRA 11:8)

1.Khar'kovskiy politekhnicheskii institut im. V.I. Lenina.
(Meteors---January)

29661
S/169/61/000/005/018/049
A005/A130

3.2440

AUTHORS: Kashcheyev, B., Luk'yashko, D.

TITLE: Radar observations of sporadic meteors during January and February 1958

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 5, 1961, 7, abstract 5 G 45. (Astron. tsirkulyar, 1958, 8 maya, no. 191, 22-23)

TEXT: The authors observed radio reflections from meteor trails on a 8.13 m wavelength. High activity was recorded on the nights of January 15 and 16 and February 16. The hourly number of meteor reflections is given. In the main, the duration of reflections amounts to fractions of a second. 54% of the number of sporadic meteors whose velocity was measured in January had a geocentric velocity of 25-45 km/sec.

G.Z.

[Abstractor's note: Complete translation.]

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89773

S/169/61/000/002/027/039

A005/A001

9.9300

Translation from: Referativnyy zhurnal, Geofizika, 1961, No. 2, p. 42, # 20297

AUTHORS: Kashcheyev, B. L., Tsymbal, N. T., Proshkin, Ye. G.

TITLE: The Investigation of the Ionosphere Above Khar'kov During the IGY

PERIODICAL: V sb.: "Dreyfy i neodnorodnosti v ionosfere", No. 1, Moscow, AN SSSR, 1959, pp. 40-49 (English summary)

TEXT: Results are presented of investigations of the inhomogeneous structure of the ionosphere from observations conducted at Khar'kov in 1954. The equipment is briefly described for measuring the drifts in the ionosphere by the method of spaced reception with a small base, as well as the applied method of calculating the speed and direction of drifts, the ionospheric turbidity degree β , the root-mean-square speed of the (chaotic) motion of inhomogeneities in the F2-layer (V_o), the fluctuations of the electron density in the F-layer (δN), and the angular spectrum of radiowaves (θ) scattered from the F-layer. It is pointed out that by night the values $\beta = 0.5 - 1.5$ are mostly observed (in 80% of the events). By day is mostly (80%) $\beta = 1 - 4$. For the F-layer an energy of the mirror-reflected wave exceeding the energy of the scattered waves ($\beta > 1$) was observed by day in

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3(1)

AUTHORS: Dudnik, B.S., Kashcheyev, B.L.,
Lagutin, M.F., and Lysenko, I.A.

SOV/33-36-1-19/31

TITLE: Velocity of Meteors of the Gemini Shower

PERIODICAL: Astronomicheskiy zhurnal, 1959, Vol 36, Nr 1, pp 141-145 (USSR)

ABSTRACT: In the present paper the authors give the results of measurements of the velocities of meteors made by radio-echo technique during the Gemini shower on December 10-14, 1957 from 23^h to 5^h in Khar'kov. V.V. Tolstov and D.N. Luk'yashko had a share in the measurements. 569 velocities of meteors were determined. 226 meteors had velocities from 32.5 to 37.5 km/sec. Here the mean velocity was 35.9 km/sec. There are 6 figures and 2 references, 1 of which is Soviet, and 1 English

SUBMITTED: March 5, 1958

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37946
S/035/62/000/005/041/098
A055/A101

3.1710

AUTHORS: Kashcheyev, B. L., Dudnik, B. S., Lagutin, M. F., Lysenko, I. A.

TITLE: Apparatuses for radar observation of meteors

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 5, 1962, 45-46,
abstract 5A349 (V sb. "Meteory", no. 1, Khar'kov, Khar'kov university,
1960, 3-10)

TEXT: The authors describe a radar system permitting the investigation of meteoric phenomena. They examine the functional circuits of the apparatuses for measuring the number of meteors at the 36.9 Mc frequency. To enhance the reliability of the obtained results, a pulse-noise prevention device is employed, this device making use of the difference in the spectra of the periodical sequence of rectangular radio pulses and pulse noises. An apparatus is described that permits determining the meteor speeds, the height of the reflecting region of the meteor trail, the radiants and the orbits; it also permits the investigation of the meteor trail drift. The pulse-coherent method is used for the observation of the trail. For studying turbulent motions in the meteor zone of the atmosphere, extension receiving relay stations are used, into which is fed

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